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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/715,850	11/19/2003	Masayoshi Sawai	Q78555 3962		
23373 7590 SUGHRUE MION,	04/16/2007	EXAMINER			
· ·	PLLC NIA AVENUE, N.W	STEVENS, THOMAS H			
SUITE 800 WASHINGTON, D	C 20037	•	ART UNIT	PAPER NUMBER	
WASHINGTON, D	C 20037		2121		
SHORTENED STATUTORY PER	IOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MONTHS	· · · · · · · · · · · · · · · · · · ·	04/16/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No) .	Applicant(s)					
		10/715,850		SAWAI ET AL.					
Office Action Summa	Examiner		Art Unit						
		Thomas H. Stev		2121					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PER WHICHEVER IS LONGER, FROM - Extensions of time may be available under the p after SIX (6) MONTHS from the mailing date of 1. If NO period for reply is specified above, the main and the set or extended period Any reply received by the Office later than three earned patent term adjustment. See 37 CFR 1.	THE MAILING DA rovisions of 37 CFR 1.13 his communication. kimum statutory period w for reply will, by statute, months after the mailing	ATE OF THIS C 16(a). In no event, how ill apply and will expire cause the application	OMMUNICATION wever, may a reply be time SIX (6) MONTHS from to become ABANDONED	l. ely filed the mailing date of this co O (35 U.S.C. § 133).					
Status									
2a) ☐ This action is FINAL.3) ☐ Since this application is in cor									
Disposition of Claims			•						
 4) Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-5 is/are allowed. 6) Claim(s) 6 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 									
Application Papers									
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 									
Priority under 35 U.S.C. § 119									
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
Attachment(s)									
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Re 3) Information Disclosure Statement(s) (PTO/9 Paper No(s)/Mail Date S. Patent and Trademark Office.	•	4) 5) 6)	Interview Summary (Paper No(s)/Mail Dat Notice of Informal Pa Other:	te					

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DETAILED ACTION

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1. Claims 1-6 were examined.

Section I: Final Rejection

Claim Rejections - 35 USC § 101

2. Claim 6 is directed to software-based wired design application. This claimed subject matter lacks a practical application of a judicial exception (law of nature, abstract idea, naturally occurring article/phenomenon) since it fails to produce a useful, concrete and tangible result.

Specifically, the claimed subject matter does not produce a useful, concrete, tangible result because the claimed subject matter fails to produce a result that is limited to having real world value rather than a result that may be interpreted to be abstract in nature as, for example, a thought, a computation, or manipulated data. More specifically, the claimed subject matter merely states process of predicting design shape. This produced result remains in the abstract and, thus, fails to achieve the required status of having real world value.

Section I: Allowance

- 3. Claims 1-5 are allowed.
- 4. As allowable subject matter has been indicated, applicants' reply must either comply with all formal requirements or specifically traverse each requirement not complied with. See 37 CFR 1.111(b) and MPEP § 707.07(a).

Section III: Response to Arguments

IDS

5. The Office acknowledges applicants' response.

101

6. Applicants are thanked for addressing this issue; however, although applicants have amended claims 1-5 to obviate this rejection, claim 6 remains an issue as set forth above.

Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicants' disclosure:
 - US Patent 6,813,749: teaches a finite model of a printed wiring board is produced based on the thermo-mechanical environment parameters and userdefined parameters e.g. solder-type used in board.
- 8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mr. Tom Stevens whose telephone number is 571-272-3715.

If attempts to reach the examiner by telephone are unsuccessful, please contact examiner's supervisor Mr. Anthony Knight 571-272-3687. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov.. Answers to questions regarding access to the Private PAIR system, contact the Electronic Business Center (EBC) (toll-free (866-217-9197)).

Anthony Knight

Supervisory Patent Examiner

Tech Center 2100